





GLINT FROM THE THE

JOHN GRAINEY, FARMER, SAIDHE FOUND IT WHILE DIGGING FOR A WELL ... A BODY OF A GIANT!



HAVE A GOOD



800'5

YOU KHOW WHAT IT IS? DID YOU EVER HEAR OF THE CARDIFF GIANT, MR. GRAINEY? NO...I DON'T RECOLLECT I EVER



WEIL, BACK IN THE 1800'S A FARMER WAS DIGGING A WEIL NEAR CARDIFF, NEW YORK. "CLAIMED HE FOUND A GIANT

IT WAS NO GIANT NOR AN ANCIENT STATUE EITHER!







I TELLYOU, CLAY, ME MADE A MONKEY OUT OF THAT FARMER!

TRYING TO PULL A CAR-DIFF 'GIANT' HOAX ON US! HA, HA! IT L'OKED LIKEA CRUDE PLASTER-OF-PARIS STATUE!















BELIEVE ME, MR. GRAINEY, I COME IN ALL SERIOUS -NESS... I'M AN ANTHRO -POLOGIST AND A SCHOLAR ON RACIAL TYPES ... I'D LIKE TO SEE WHAT YOU FOUND!















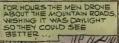


IT LOOKS LIKE SOME INTRICATE ELECTRONIC MATERIAL...LIKE TRANSISTORS OR SOMETHING!

















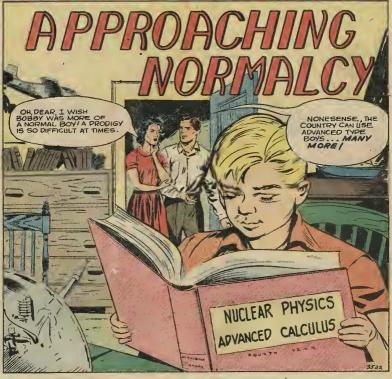


















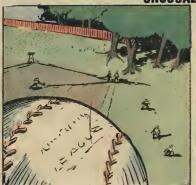












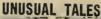
























4 Marksmen

4 Riflemen

8 Wacs



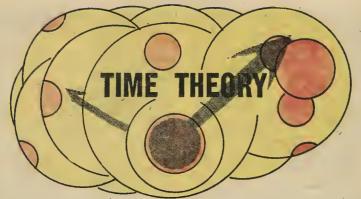












A variety of plots in the field of Science-Fiction and Outer space are built around what is known as the "Time Concept." In one form, our hero enters the past or present by going into time belts. In another form our hero leaves Earth and comes back to find he is younger! But actually what will really happen when the first spaceship travels to another planet?

At present it can be said that according to widely accepted theory, a very accurate clock carried at speeds of 18,000 miles an hour around the earth should show a different time from that of an identical clock that remained on earth. Immediately, you will ask the question:

Which clock is correct.

However we would first have to carry out an experiment to measure whether time is modified for speeding objects. Thus, from one aspect of the relativity theory, it might seem that space travelers will live longer than people who remain at home. Just have two twins at the spaceport station. We will agree that they are twenty years of age. Tom bids farewell to his brother. Iack,

Jack enters the spaceship FASTO and the trip is at the speed of light. He is headed for the star, Sirius. When Jack returns he will find that Tom is 38 years old while he himself will have aged only a few years. Most mathematicians and physicists will agree with this statement, but there were disagreements. Some scientists point out that what we call, "growing older" is a biological process which is independent of time so that regardless of how the "time" is figured, the aging continues. This would mean that when Jack returns to earth and he is checked, he has aged as much as his "older" brother.

Then there are those who point out that in the space trip away from Earth, Jack really get's "younger." But on the return trip to Earth he gets "older" so that when be greets his brother Tom at the spaceport station they are just the same as when they said farewell to each other.

What a fine situation it might be if the space traveler came home feeling fine and fit, youthful as could be, and saw a very old man with a long beard greeting him in a feeble voice. This might be complicated by another factor: For strange as it seems, wby can't we reverse the situation? Have the brother who remained at home become younger and the space traveler become older. So that it is a youthful Tom who takes a look at the brother with the loog beard.

If all motion is said to be relative, then how does ooe decide who traveled and who stayed at home? Just a wee bit of science about the situation: It was years ago that the late Albert Einstein came up with two ideas. First, there is no way to determine which one of two objects is moving and which is left behind. And second, that the speed of light is constant. These were later modified by a mathematical idea known as the Lorentz transformation. It stated that if it is assumed that one of two bodies is at rest, then it follows that the other one must age less rapidly.

One scientist had made mathematical calculations in which the age difference between the twins are related to the changes in velocity that they experience. The calculation shows that a man might travel 2,400,000,000 light years from his starting place and spend only forty-two years of his life on the trip. As you probably remember, a light year is the distance traversed in a year by light traveling at 186,000 miles a second. If you want to spend a lot of time figuring it out in terms of an ordinary year on earth, it should come out to about six million-million miles. Which is a lot of distance even for a space traveler to cover.

There are, of course, other conditions which

must be taken into consideration. The little detail about the matter and anti-matter, which annihilate each other on contact. Did you ever figure on the possibility that other universes out in space may be composed of anti-matter to be destroyed in a violent cataclysm if it should ever touch matter? What a possibility for a dramatic story!

You tell about the years of hardship and preparation to make this particular space flight. Then comes the successful launching of the spaceship VENTURE. Finally after years of agonizing situations it is about to come to a landing on planet X-2 which is in another universe. But wait! That planet X-2 is composed of anti-matter and the spaceship and its human inhabitants are all composed of matter. So boom

goes everything into fine space dust! So that brings up the subject of matter. You look at a ski made from special selected hickory. Wood, you would say, and then agree it is made up of what you would term, "fibres." Let's break up those fibres and we find they are composed of molecules. The molecules are composed of atoms. The atoms are composed of neutrons and electrons. If you are musical, you might make up a song about this. Neutrons and electrons, mass and energy units, are the smallest units known up to the present and there are a variety of studies being made to explain how these tiniest units react together. For, Newtonian explanations apply to only larger objects and we have to find out how these tiniest units

work so that rules may be formulated.

Now even you and I must take time out while they get ready for the latest experiment. We just have to wait until it is finished and the results analyzed. They will take radioactive manganese 52 and cool it to within a few thousandths of a degree of minus absolute zero. So that nearly all motion imparted to the tiny particles in the

manganese by heat is stopped.

Next step will be to have these manganese atoms lined up by the use of magnets. When the radioactive material disintegrates it will give off simultaneously a beta particle (an electron) and a neutrino (unstable with no charge) at the same time. Measurements with very delicate instruments will be made to see whether the beta particles spin in the same direction, or the opposite direction, as the neutrinos. The result, it is hoped, will be to indicate whether the flow of time is forward or backward.

This of course gives all of us an idea for a wonderful plor. If time flows forward then the entire group of scientists who are watching the experiment might get caught in a reverse time belt. For reasons of secrecy and National safety, they are all working behind a locked steel door with armed guards outside to see that there is no interference. But when the scientists should

phone that they are finished, nothing happens. So the worried Generals open the steel door, and what do they find? Seven little babies are crawling around the floor?

A satellite experiment to test some of these concepts has been proposed as follows: A satellite is to be equipped with highly sensitive photoelectric telescopes that could measure the visible light from other galaxies in the universe. For ground based study of the spectrum of the extragalactic light has shown a shift to the redthe so-called "red shift" which is interpreted as being caused by the expanding movements of the galaxies. If this is done, then I shall report the results, whatever they might be, to you. However, I do feel, that soon we will mount spectographs in the satellites to study the radiation from the sun, planets, and stars completely free from the interference by the earth's atmosphere. This would furnish more definite information on the composition and atmosphere of the bodies in the solar system.

Meanwhile there is bound to be a lot of disagreement about what will happen. So we just have to wait, and wait, until that manned spaceship takes off from earth and returns. Meanwhile, you can ponder over this one suggested by one scientist: According to relative, if two bodies, for example two identical clocks separate and reunite, there is no observable phenomenon that will show in an absolute sense that one rather than the other has moved.

Now look at the fun you can have in your story. Your hero is in one spaceship. He wants to check up on the accuracy of his clock. So he calls earth which just happens to be about 35,000,000 miles away. At the same time his message is received by a friendly Martian spaceship which is about 569,000,000,000 miles away. Who knows? By the time the answer has been received and checked, the clock might have worn out, or the occupants of that spaceship have become too old and feeble to even make the needed adjustment of one hundred billionth of a second.

Can we make time run backwards? That has to of possibilities for Science Fiction plots. We are to be invaded by a fleet of spaceships from Galaxy 3. So what do we do? We just turn time backwards. When they get here all they find are a group of unfriendly prehistoric monsters who destroy the visitors from other planets. Simple, eh? But if you believe in cause and effect, you have to worry about this one: Can you have the effect before you have the cause? You might get this if you could make time run backwards.

So just stick around for the next thousand years or so and you are certain to see a lot of startling developments in Time Theory. How to last that long? Well, that's your problem-not wine.

THE STUBBORN HOUSE

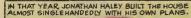
YOUNG RICHARD HALEY HAD LIVED IN THE OLD HALEY HOUSE ALL HIS LIFE TODAY HE HAD COME INTO A SIZEABLE INHERITANCE AND HAD A PLAN IN MIND...











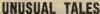




WHEN HIS END APPROACHED, JONATHAN WROTE





















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DAVY CROCKETT























THE OLD HOUSE LOOKED GRANDER THAN EVER WHEN RICHARD HALEY HAD IT FULLY REPAIRED...



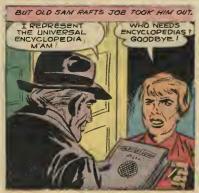
THE HALEY HOUSE WAS DESTINED TO STAND AS LONG AS THERE WAS A HALEY LIVING IN IT!



SAM RAFT WAS AN ANGRY MAN! AS FAR AS HE WAS CONCERNED, THE WORLD WAS A ROTTEN PLACE, FULL OF MISERABLE PEOPLE, AND ALL HE WANTED WAS TO BE LEFT...











DON'T BUTT
INTO MY PRIVATE YOU WON'T
LIFE! YOU'RE
HERE TO GIVE
ME LEADS WAY, YOU
AND SAMPLES, NEED A
THAT IS ALL! REST. YOU
ANYMORE...









MOMENTS LATER. SOMEONE IS AT THE DOOR, NOW THEY WILL KNOW HOW IT FEELS TO BE TURNED AWAY













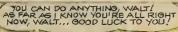


ASTHE WATERS CREPT INTO THE ONLY OCCUPIED HOUSE IN BRIXTON .. SAM WAS ... ALONE!

UNUSUAL TALES ERlife the GR

WHEN A MAN IS IN A COMA FOR THREE MONTHS A LOT OF THINGS COULD HAPPEN. A WAR COULD STARF AND FINISH... A DISASTER COULD TAKE PLACE... EVEN AN INVASION FROM OUTER SPACE MIGHT OCCUR.





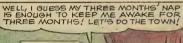


I GUESS IT COULD BE WORSE ,,, ANY WAY, I'LL JUST PICK UP WHERE ,,, WHO'S THAT FUNNY-LOOKING BIRD?





























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Yes, here's a wonderful business for you, if

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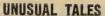
I'M JUST NOT WELL YET! WHEN THAT BRICK FROM A BUILDING STRUCK ME AND KNOCKED ME OUT FOR THREE MONTHS IT ALMOST FINISHED ME!

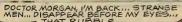
















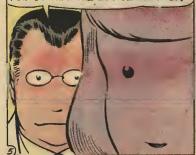
HE FAINTED... I'M NOT SURPRISED... AH, HERE'S HELEN... I SEE YOU'VE MADE THE CHANGE, TOO!



POOR WALT! WE SHOULD HAVE TOLD HIM ABOUT OUR DOUBLE-IDENTITY LIVES! WITH VENUSIANS TAKING OVER OUR IDENTITY WITH THEIR FEATURES, IT'S THE ONLY WAY EARTHMEN CAN SURVIVE!



WALT WILL BE ALL RIGHT, HELEN! WE REALLY SHOULD HAVE EXPLAINED IT TO HIM... BUT HE'LL SOON LEARN AND GO THRU THE CHANGE HIMSELF!



IT WOULD HAVE BEEN FATAL IN HIS CONDITION TO LET HIM KNOW OF THE BRIEF WAR BETWEEN VENUSIANS AND EARTHMEN! BUT WALT WILL LEARN OF THE GREATER LIFE THAT IS IN STORE FOR ALL OF US SINCE THE VENUSIANS SAVED EARTH FROM ITS OWN FIENDIGH, WARTLIKE PREPARATIONS!





My name is Charles Atlas. Of course, I can't promise that you'll win the title of "World's Most Perfectly Developed Man," as I did. But I do say that I believe I can make a mighty powerful

He-Man out of you - in a very short time. In fact, you can prove it to yourself in 7 days. At my risk, of course. And I have good reason for believing I can do it. Because during the last 30 years I have turned many thousands of weaklings - fellows who were ashamed of their bodies into beautifully-proportioned human dynamos of strength, energy, and tireless endurance... with the kind of muscular development that needn't take "back talk" from any one. My big free book will tell you how my secret of Dynamic Tension may be able to do such a job for you. Where shall I send your copy? There's not a bit of cost or obligation on your part. So mail the coupon now.

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